

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: Fee	6. SURFACE: Fee
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: NA	
2. NAME OF OPERATOR: Newfield Production Company				9. WELL NAME and NUMBER: Tanner-Jorgenson 15-22-4-1	
3. ADDRESS OF OPERATOR: Route #3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER: (435) 646-3721				10. FIELD AND POOL, OR WILDCAT: Monument Butte	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SW/SE 814' FSL 1957' FEL 586974x 40.115472 4440863y 109979406 AT PROPOSED PRODUCING ZONE:				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 22 4S 1W	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 10.5 miles southeast of Myton, Utah				12. COUNTY: Duchesne	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) Approx. 506' f/lse line, NA' f/unit line		16. NUMBER OF ACRES IN LEASE: NA		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40 acres	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) NA		19. PROPOSED DEPTH: 6,800		20. BOND DESCRIPTION: #B001834	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5117' GL		22. APPROXIMATE DATE WORK WILL START:		23. ESTIMATED DURATION: (7) days from SPUD to rig release	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4	8 5/8	J-55	24.0	300	Class G w/2% CaCl	155 sx +/-	1.17 15.8
7 7/8	5 1/2	J-55	15.5	6,800	Lead(Prem Lite II)	275 sx +/-	3.26 11.0
					Tail (50/50 Poz)	450 sx +/-	1.24 14.3

RECEIVED

APR 06 2009

DIV. OF OIL, GAS & MINING

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Mandie Crozier TITLE Regulatory Specialist  
SIGNATURE Mandie Crozier DATE 4/2/09

(This space for State use only)

API NUMBER ASSIGNED: 43-013-34258

APPROVAL:

# T4S, R1W, U.S.B.&M.

S89°58'W - 80.00 (G.L.O.)

2642.24' (Measured)  
S89°58'W G.L.O. (Basis of Bearings)

1/2" Rebar in  
Pile of Stones

Aluminum Cap  
Marked  
PLS 148953

**WELL LOCATION:**  
**WELL 15-22-4-1**

ELEV. UNGRADED GROUND = 5117.3'

22

5/8" Rebar in  
Pile of Stones  
at Fence Corner

S61°21'12"E 3806.41'

DRILLING  
WINDOW

1957'

200'  
814'

N89°53'W - 80.24 (G.L.O.)

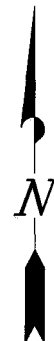
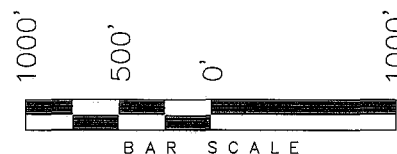
S0°02'E (G.L.O.)

S00°02'12"E - 2647.57' (Meas.)

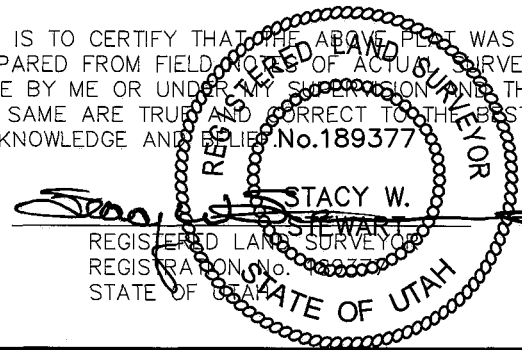
S00°02'E - (G.L.O.)

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, WELL 15-22-4-1,  
LOCATED AS SHOWN IN THE SW 1/4 SE  
1/4 OF SECTION 22, T4S, R1W,  
U.S.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 09-18-08	SURVEYED BY: C.M.
DATE DRAWN: 10-23-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;

U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

**WELL 15-22-4-1**  
**(Surface Location) NAD 83**  
LATITUDE = 40° 06' 54.38"  
LONGITUDE = 109° 58' 48.76"

# NEWFIELD



April 24, 2009

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Amended Application for Permit to Drill  
Tanner-Jorgenson 13-22-4-1  
Tanner-Jorgenson 15-22-4-1

Dear Diana:

Enclosed find the amended Form 3, plats, and Surface Use Program for the above mentioned APD's which have already been submitted for approval. At the time of the on-site it was determined that the proposed wells need to be moved. If you have any questions, feel free to give me a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

enclosures

**RECEIVED**  
**APR 27 2009**  
DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

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3. ADDRESS OF OPERATOR: Route #3 Box 3630 CITY Myton STATE UT ZIP 84052			PHONE NUMBER: (435) 646-3721		
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: SW/SE 587004x 40.115972 44409184 -109.979041 AT PROPOSED PRODUCING ZONE:				10. FIELD AND POOL, OR WILDCAT: Monument Butte	
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 22 4S 1W				12. COUNTY: Duchesne	
13. STATE: UTAH				14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 10.5 miles southeast of Myton, Utah	
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					Tail (50/50 Poz)	450 sx +/-	1.24 14.3

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NAME (PLEASE PRINT) Mandie Crozier TITLE Regulatory Specialist

SIGNATURE [Signature] DATE 4/24/09

(This space for State use only)

API NUMBER ASSIGNED: 43-013-34258

APPROVAL:

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/27/2009

API NO. ASSIGNED: 43-013-34258

WELL NAME: TANNER-JORGENSEN 15-22-4-1  
OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWSE 22 040S 010W  
SURFACE: 0996 FSL 1855 FEL  
BOTTOM: 0996 FSL 1855 FEL  
COUNTY: DUCHESNE  
LATITUDE: 40.11597 LONGITUDE: -109.97904  
UTM SURF EASTINGS: 587004 NORTHINGS: 4440918  
FIELD NAME: MONUMENT BUTTE ( 105 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	OKD	6/17/09
Geology		
Surface		

LEASE TYPE: 4 - Fee  
LEASE NUMBER: FEE  
SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: GRRV  
COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. B001834 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-7478 )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

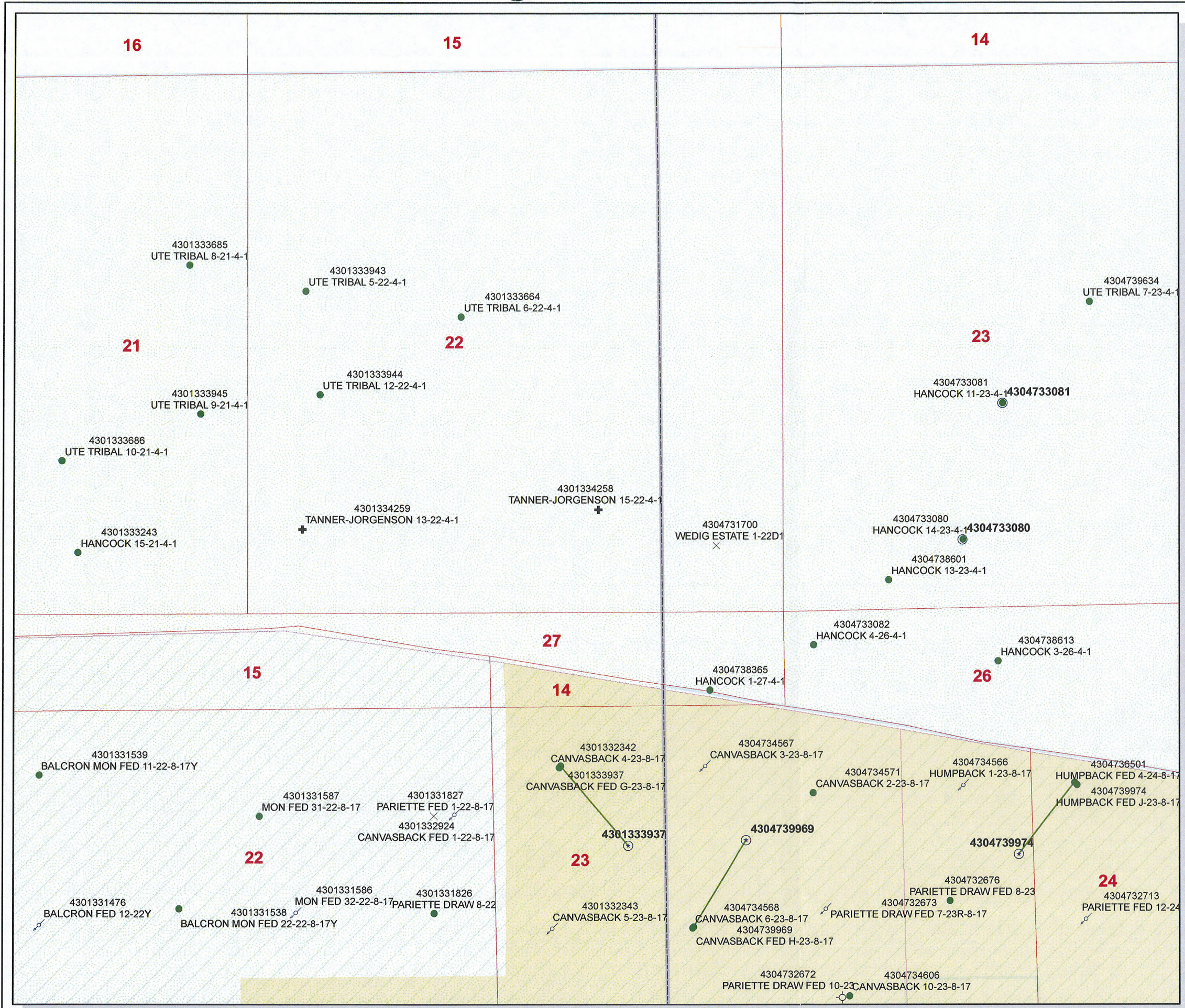
LOCATION AND SITING:

\_\_\_\_ R649-2-3.  
Unit: \_\_\_\_\_  
\_\_\_\_ R649-3-2. General  
☒ Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
\_\_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
\_\_\_\_ R649-3-11. Directional Drill

COMMENTS: Recd Permit 4-21-09

STIPULATIONS: 1- Spacing Strip  
2- Surface Csg Cont Strip  
3- Statement of Basis

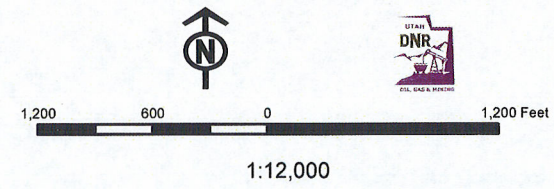




**API Number: 4301334258**  
**Well Name: TANNER-JORGENSEN 15-22-4-1**  
**Township 04.0 S Range 01.0 W Section 22**  
**Meridian: UBM**  
**Operator: NEWFIELD PRODUCTION COMPANY**

Map Prepared:  
Map Produced by Diana Mason

<b>Units</b>	<b>Wells Query Events</b>
<b>STATUS</b>	<all other values>
ACTIVE	<b>GIS_STAT_TYPE</b>
EXPLORATORY	<Null>
GAS STORAGE	APD
NF PP OIL	DRL
NF SECONDARY	GI
PI OIL	GS
PP GAS	LA
PP GEOTHERML	NEW
PP OIL	OPS
SECONDARY	PA
TERMINATED	PGW
<b>Fields</b>	POW
ACTIVE	RET
COMBINED	SGW
Sections	SOW
	TA
	TW
	WD
	WI
	WS





# Application for Permit to Drill

## Statement of Basis

4/27/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
1399	43-013-34258-00-00		OW	P	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	TANNER-JORGENSEN 15-22-4-1		<b>Unit</b>		
<b>Field</b>	MONUMENT BUTTE		<b>Type of Work</b>		
<b>Location</b>	SWSE 22 4S 1W U 814 FSL 1957 FEL GPS Coord (UTM) 586974E 4440863N				

### Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 400'. A search of Division of Water Rights records shows 5 water wells within a 10,000 foot radius of the center of Section 22. All wells are privately owned. Depth is not listed for any of the wells. Water use is listed as irrigation, stock watering, and domestic use. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Surface casing should be extended to cover the estimated base of the moderately saline ground water.

Brad Hill  
APD Evaluator

4/27/2009  
Date / Time

### Surface Statement of Basis

The proposed location is approximately 10.1 road miles southeast of Myton, UT in a sub-drainage of Pleasant Valley Wash which drains into the Pariette Draw drainage of Duchesne County. Both of these draws contain perennial streams somewhat consisting of irrigation runoff and seepage. Pariette Draw runs into the Green River approximately 6 miles downstream from Ouray, Utah and about 12 miles downstream from the location. Broad flats in Pleasant Valley frequently used for agriculture characterize the area. Flats are intersected by drainages with gentle to moderate side slopes. Access is by State and County and existing oil field development roads. A few feet of additional new construction across Larsen's private land will be required to reach the location.

The proposed Tanner-Jorgenson 15-22-4-1 oil well pad is on the north end of an agricultural field irrigated by a wheel-line sprinkler system. The site is outside the normal drilling window but was located near the north west corner of a field to reduce the loss of irrigation land of the surface owner. Nolan Larsen is the surface owner and is agreeable to the location as staked. Lane Larsen, Nolan's son was at the pre-site The entrance road will be moved from the south end of the location to enter the pad near the southwest corner (Corner 8), directly from the existing road.

The selected location with the road modifications should be suitable and stable for constructing the pad, drilling and operating the proposed well.

The minerals are FEE but owned by another party and under lease to Newfield Production Company.

Floyd Bartlett  
Onsite Evaluator

4/21/2009  
Date / Time

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# Application for Permit to Drill

## Statement of Basis

4/27/2009

Utah Division of Oil, Gas and Mining

Page 2

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### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.



# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** TANNER-JORGENSEN 15-22-4-1  
**API Number** 43-013-34258-0 **APD No** 1399 **Field/Unit** MONUMENT BUTTE  
**Location:** 1/4,1/4 SWSE **Sec** 22 **Tw** 4S **Rng** 1W 814 FSL 1957 FEL  
**GPS Coord (UTM)** 587014 4440938 **Surface Owner**

### **Participants**

Floyd Bartlett and Mark Rehinbolt (DOGM), Tim Eaton, Brian Foote and Jeff Henderson (Newfield Production Co.), Lane Larson (Landowner Representative).

### **Regional/Local Setting & Topography**

The proposed location is approximately 10.1 road miles southeast of Myton, UT in a sub-drainage of Pleasant Valley Wash which drains into the Pariette Draw drainage of Duchesne County. Both of these draws contain perennial streams somewhat consisting of irrigation runoff and seepage. Pariette Draw runs into the Green River approximately 6 miles downstream from Ouray, Utah and about 12 miles downstream from the location. Broad flats in Pleasant Valley frequently used for agriculture characterize the area. Flats are intersected by drainages with gentle to moderate side slopes. Access is by State and County and existing oil field development roads. A few feet of additional new construction across Larsen's private land will be required to reach the location.

The proposed Tanner-Jorgenson 15-22-4-1 oil well pad is on the north end of an agricultural field irrigated by a wheel-line sprinkler system. The site is outside the normal drilling window but was located near the north west corner of a field to reduce the loss of irrigation land of the surface owner. Nolan Larsen is the surface owner and is agreeable to the location as staked. Lane Larsen, Nolan's son was at the pre-site. The entrance road will be moved from the south end of the location to enter the pad near the southwest corner (Corner 8), directly from the existing road.

The selected location with the road modifications should be suitable and stable for constructing the pad, drilling and operating the proposed well.

The minerals are FEE but owned by another party and under lease to Newfield Production Company.

### **Surface Use Plan**

#### **Current Surface Use**

Grazing  
Agricultural  
Wildlife Habitat

#### **New Road**

Miles	Well Pad	Src Const Material	Surface Formation
0	Width 204 Length 305	Onsite	UNTA

**Ancillary Facilities** N

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

Recently plowed field.  
Cattle, deer, prairie dogs, small mammals and birds.

**Soil Type and Characteristics**

Deep sandy loam.

**Erosion Issues** N**Sedimentation Issues** N**Site Stability Issues** N**Drainage Diversion Required** N**Berm Required?** Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?****Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	<25 or recharge area	20
<b>Distance to Surface Water (feet)</b>	300 to 1000	2
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	<10	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score** 37 1 **Sensitivity Level****Characteristics / Requirements**

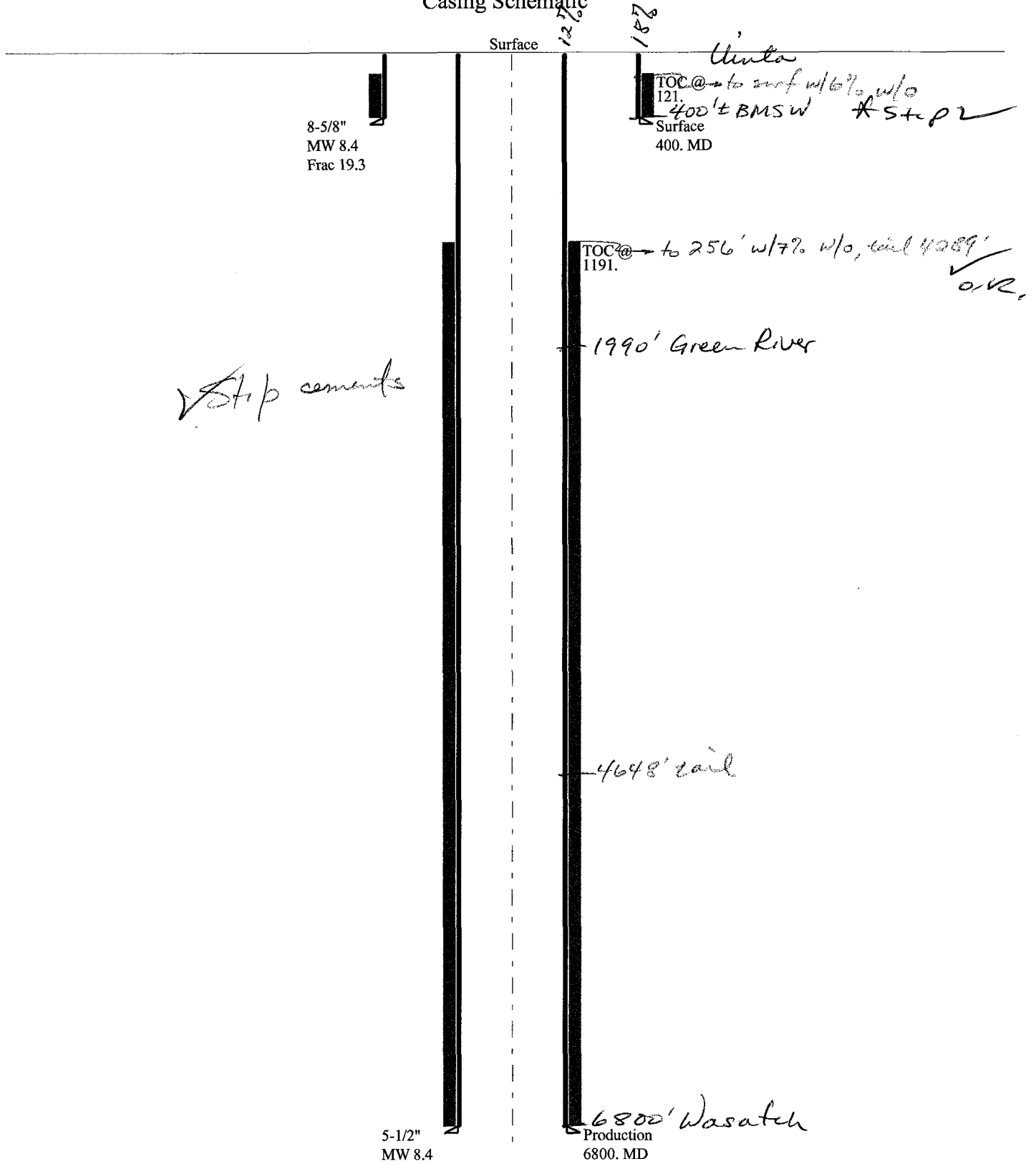
The reserve pit will be 40' x 70' x 8' deep located in an area of cut on the northeast side of the location. A pit liner is required. Newfield commonly uses a 16-mil liner.

**Closed Loop Mud Required?** N **Liner Required?** Y **Liner Thickness** 16 **Pit Underlayment Required?** Y**Other Observations / Comments**Floyd Bartlett  
Evaluator4/21/2009  
Date / Time



43013342580000 Tanner-Jorgenson 15-22-4-1

Casing Schematic



Well name:	<b>43013342580000 Tanner-Jorgenson 15-22-4-1</b>	
Operator:	<b>Newfield Production Company</b>	
String type:	Surface	Project ID: 43-013-34258-0000
Location:	Duchesne County	

**Design parameters:**
**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 71 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 185 ft

Cement top: 121 ft

**Burst**

Max anticipated surface pressure: 352 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 400 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 349 ft

**Non-directional string.**
**Re subsequent strings:**

Next setting depth: 6,800 ft  
Next mud weight: 8.400 ppg  
Next setting BHP: 2,967 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 400 ft  
Injection pressure: 400 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	400	8.625	24.00	J-55	ST&C	400	400	7.972	143

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	175	1370	7.851	400	2950	7.38	10	244	25.42 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 810-538-5357

Date: June 4, 2009  
Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 400 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*



Well name:	<b>43013342580000 Tanner-Jorgenson 15-22-4-1</b>	
Operator:	<b>Newfield Production Company</b>	Project ID:
String type:	Production	43-013-34258-0000
Location:	Duchesne County	

**Design parameters:**
**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 160 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 368 ft

Cement top: 1,191 ft

**Burst**

Max anticipated surface pressure: 1,471 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 2,967 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Non-directional string.**

Tension is based on buoyed weight.

Neutral point: 5,936 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6800	5.5	15.50	J-55	LT&C	6800	6800	4.825	908.7
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2967	4040	1.362	2967	4810	1.62	92	217	2.36 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 810-538-5357

Date: June 4, 2009  
Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Collapse is based on a vertical depth of 6800 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

## BOPE REVIEW

Newfield Tanner-Jorgenson 15-22-4-1

API 43-013-34258-0000

## INPUT

Well Name

Newfield Tanner-Jorgenson 15-22-4-1 API 43-013-34258-0000

Casing Size (")

Setting Depth (TVD)

Previous Shoe Setting Depth (TVD)

Max Mud Weight (ppg)

BOPE Proposed (psi)

Casing Internal Yield (psi)

Operators Max Anticipated Pressure (psi)

String 1	String 2		
8 5/8	5 1/2		
400	6800		
0	400		
8.4	8.4	✓	
0	2000		
2950	4810		
2944	8.3 ppg	✓	

## Calculations

String 1 8 5/8 "

Max BHP [psi]

.052\*Setting Depth\*MW = 175

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi]

Max BHP-(0.12\*Setting Depth) = 127

NO

O.K.

Air drill

MASP (Gas/Mud) [psi]

Max BHP-(0.22\*Setting Depth) = 87

NO

\*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe

Max BHP-.22\*(Setting Depth - Previous Shoe Depth) = 87

NO

O.K.

Required Casing/BOPE Test Pressure

400

psi

\*Max Pressure Allowed @ Previous Casing Shoe =

0

psi

\*Assumes 1psi/ft frac gradient

## Calculations

String 2 5 1/2 "

Max BHP [psi]

.052\*Setting Depth\*MW = 2970

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi]

Max BHP-(0.12\*Setting Depth) = 2154

NO

Air Drill

MASP (Gas/Mud) [psi]

Max BHP-(0.22\*Setting Depth) = 1474

YES

O.K.

\*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe

Max BHP-.22\*(Setting Depth - Previous Shoe Depth) = 1562

NO

Reasonable for grey

Required Casing/BOPE Test Pressure

2000

psi

\*Max Pressure Allowed @ Previous Casing Shoe =

400

psi

\*Assumes 1psi/ft frac gradient



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: Fee	6. SURFACE: Fee
1A. TYPE OF WORK:    DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
B. TYPE OF WELL:    OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____    SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: NA	
2. NAME OF OPERATOR: Newfield Production Company				9. WELL NAME and NUMBER: Tanner-Jorgenson 15-22-4-1	
3. ADDRESS OF OPERATOR: Route #3 Box 3630    CITY Myton    STATE UT    ZIP 84052			PHONE NUMBER: (435) 646-3721		
4. LOCATION OF WELL (FOOTAGES)  AT SURFACE: SW/SE    996' FSL 1855' FEL    587004X    40.115972 4440918Y    -109.979041  AT PROPOSED PRODUCING ZONE:				10. FIELD AND POOL, OR WILDCAT: Monument Butte	
				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE    22    4S    1W	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: Approximately 10.5 miles southeast of Myton, Utah				12. COUNTY: Duchesne	
				13. STATE: UTAH	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): Approx. 324' f/lse line, NA' f/unit line		16. NUMBER OF ACRES IN LEASE: NA		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40 acres	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): NA		19. PROPOSED DEPTH: 6,800		20. BOND DESCRIPTION: #B001834	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5115' GL		22. APPROXIMATE DATE WORK WILL START: 3rd Qtr. 2009		23. ESTIMATED DURATION: (7) days from SPUD to rig release	

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
12 1/4	8 5/8	J-55	24.0	400	Class G w/2% CaCl	175 sx +/-	1.17	15.8
7 7/8	5 1/2	J-55	15.5	6,800	Lead(Prem Lite II)	275 sx +/-	3.26	11.0
					Tail (50/50 Poz)	450 sx +/-	1.24	14.3

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER<br><input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN<br><input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |
|--|--|

NAME (PLEASE PRINT) Mandie Crozier    TITLE Regulatory Specialist  
 SIGNATURE *Mandie Crozier*    DATE 5/15/09

(This space for State use only)

API NUMBER ASSIGNED: 43-013-34258

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

APPROVAL:

**RECEIVED**

Date: 06-18-09  
(See instructions for use of dates)

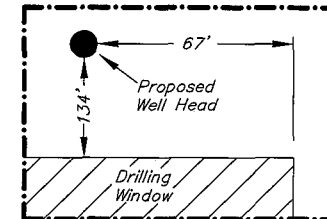
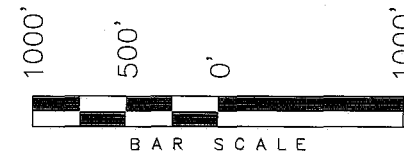
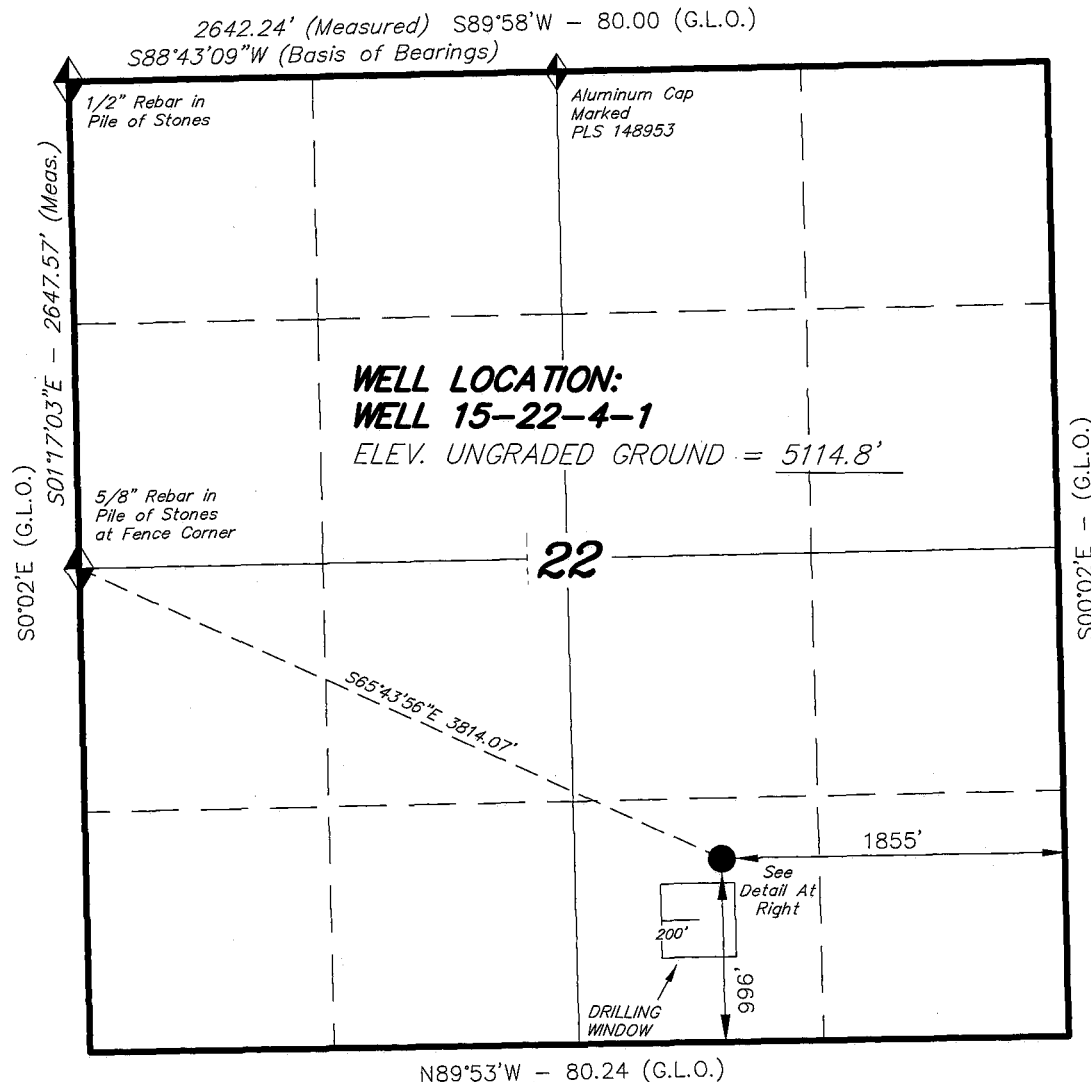
**MAY 15 2009**

By: *[Signature]*    DIV. OF OIL, GAS & MINING

# T4S, R1W, U.S.B.&M.

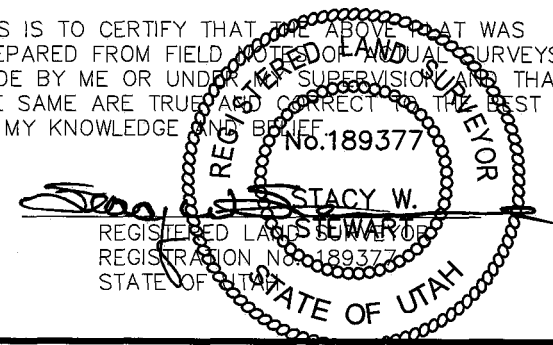
## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, WELL 15-22-4-1,  
LOCATED AS SHOWN IN THE SW 1/4 SE  
1/4 OF SECTION 22, T4S, R1W,  
U.S.B.&M. DUCHESNE COUNTY, UTAH.



**Detail**  
No Scale

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF LAND SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST  
OF MY KNOWLEDGE AND BELIEF.



**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 04-17-09	SURVEYED BY: T.H.
DATE DRAWN: 04-20-09	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on  
LOCATION: an N.G.S. OPUS Correction.  
LAT. 40°04'09.56" LONG. 110°00'43.28"  
(Tristate Aluminum Cap) Elev. 5281.57'

**WELL 15-22-4-1**  
(Surface Location) NAD 83  
LATITUDE = 40° 06' 58.00"  
LONGITUDE = 109° 58' 46.70"



NEWFIELD PRODUCTION COMPANY  
TANNER-JORGENSEN 15-22-4-1  
SW/SE SECTION 22, T4S, R1W  
DUSCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0 – 1,990'
Green River	1,990'
Wasatch	6,800'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation (Oil) 1,990' – 6,800'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. PROPOSED CASING PROGRAM:

Surface Casing: 8-5/8" J-55 24# w/ST&C collars; set at 400' (New)  
Production Casing: 5-1/2" J-55, 15.5# w/LT&C collars; set at TD (New or used, inspected).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 350$  feet will be drilled with an air/mist system. From about 350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 400' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the second quarter of 2009, and take approximately seven (7) days from spud to rig release.

## Blowout Prevention Equipment Systems

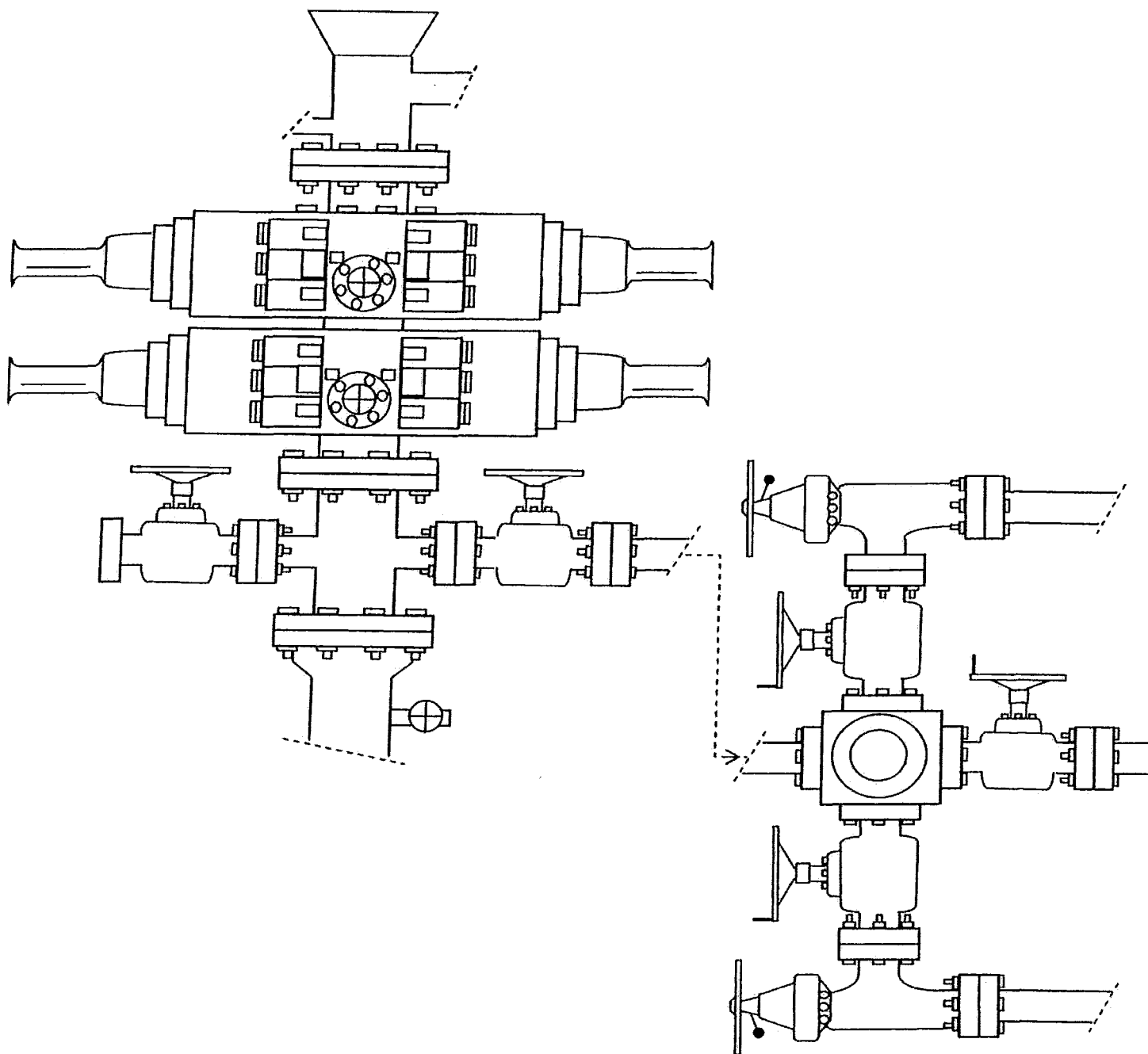


EXHIBIT C

NEWFIELD PRODUCTION COMPANY  
TANNER-JORGENSEN 15-22-4-1  
SW/SE SECTION 22, T4S, R1W  
DUSCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Tanner-Jorgenson 15-22-4-1 located in the SW¼ SE¼ Section 22, T4S, R1W, S.L.B. & M., Duchesne County, Utah:

Proceed in a southerly direction out of Myton, approximately 3.0 miles to it's junction with an existing road to the east; proceed in a southeasterly direction approximately 3.2 miles to it's junction with an existing road to the east; proceed in a northeasterly direction approximately 3.2 miles to it's junction with an existing road to the east; proceed in an southeasterly direction approximately 3.4 miles to it's junction with an existing road to the east; proceed easterly approximately 0.5 miles to it's junction with an existing road to the northeast; proceed northeasterly approximately 0.2 miles to it's junction with the beginning of the proposed access road; proceed along the proposed access road approximately 60' to the proposed well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

Approximately 60' of access road is proposed. See attached **Topographic Map "B"**.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.

There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.



3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling

fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. A 16 mil liner with felt will be required. Newfield requests approval that a flare pit be constructed and utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

- a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** Nolan Larsen  
See attached Easement ROW and Surface Use Agreement.

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological and Paleontological Report Waiver is attached. See Exhibit "D".

**Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Tanner-Jorgenson 15-22-4-1, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Tanner-Jorgenson 15-22-4-1 Newfield will use, produce, store, transport or

dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Name: Dave Allred  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #15-22-4-1, SW/SE Section 22, T4S, R1W, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

\_\_\_\_\_  
4/24/09  
Date

\_\_\_\_\_  
  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



# NEWFIELD PRODUCTION COMPANY

WELL 15-22-4-1

Section 22, T4S, R1W, U.S.B.&M.



Existing Road

F/0.5

②

TOPSOIL STOCKPILE

③

F/1.2

④

STA. 3+05

F/1.4

STA. 2+35

2' Berm Around Fill Portion of Location

C/1.1

120'

C/0.5

STA. 1+75

WELL HEAD:  
UNGRADED = 5114.8'  
FIN. GRADE = 5114.3'

C/3.2

STA. 0+00

⑧

PROPOSED ACCESS ROAD (Max. 6% Grade)

Top of Cut Slope C/2.2

⑦

C/2.0

⑥

GRADE

⑤

F/0.7

①

F/0.9

②

Toe of Fill Slope

F/0.3

③

FLARE PIT

EXCESS MATERIAL

Note:  
Flare pit is to be located a minimum of 80' from well head.

## REFERENCE POINTS

180' NORTHEAST = 5112.6'  
230' NORTHEAST = 5112.2'  
170' NORTHWEST = 5115.6'  
220' NORTHWEST = 5115.5'

SURVEYED BY: T.H.

DATE SURVEYED: 04-17-09

DRAWN BY: F.T.M.

DATE DRAWN: 04-20-09

SCALE: 1" = 50'

REVISED: L.C.S. 04-23-09

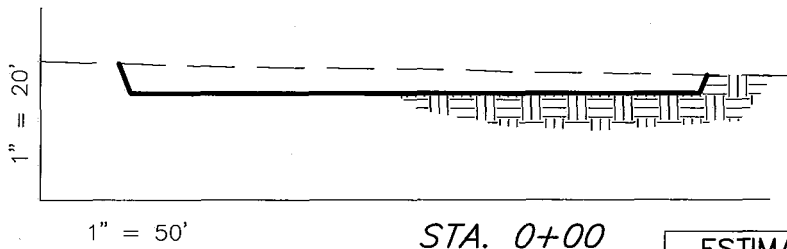
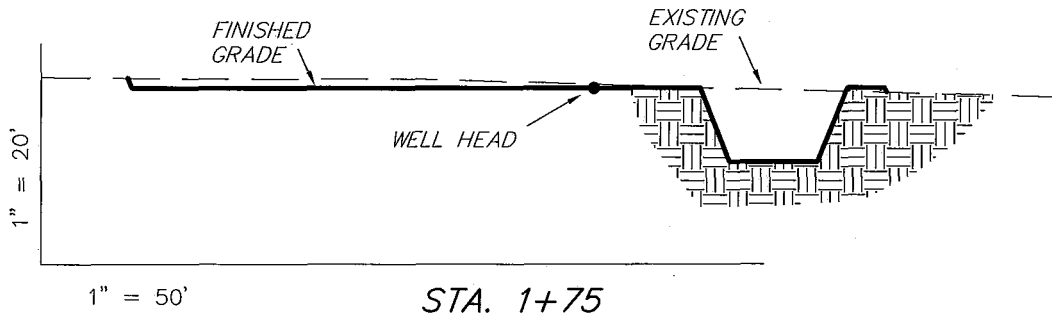
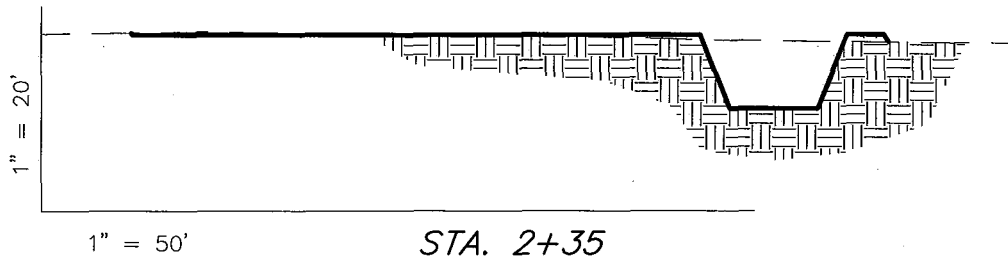
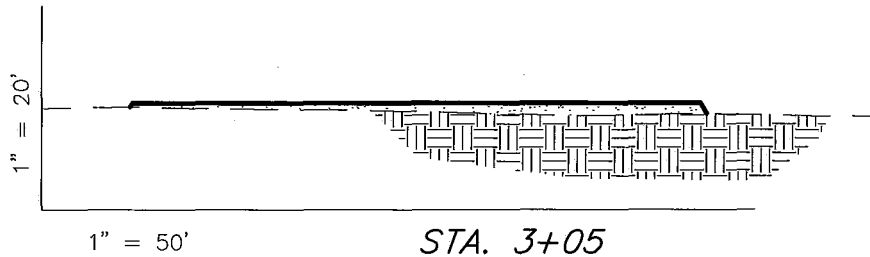
Tri State  
Land Surveying, Inc.

(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS WELL 15-22-4-1



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,220	590	Topsoil is not included in Pad Cut	630
PIT	640	0		640
TOTALS	1,860	590	1,000	1,270

SURVEYED BY: T.H.	DATE SURVEYED: 04-17-09
DRAWN BY: F.T.M.	DATE DRAWN: 04-20-09
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

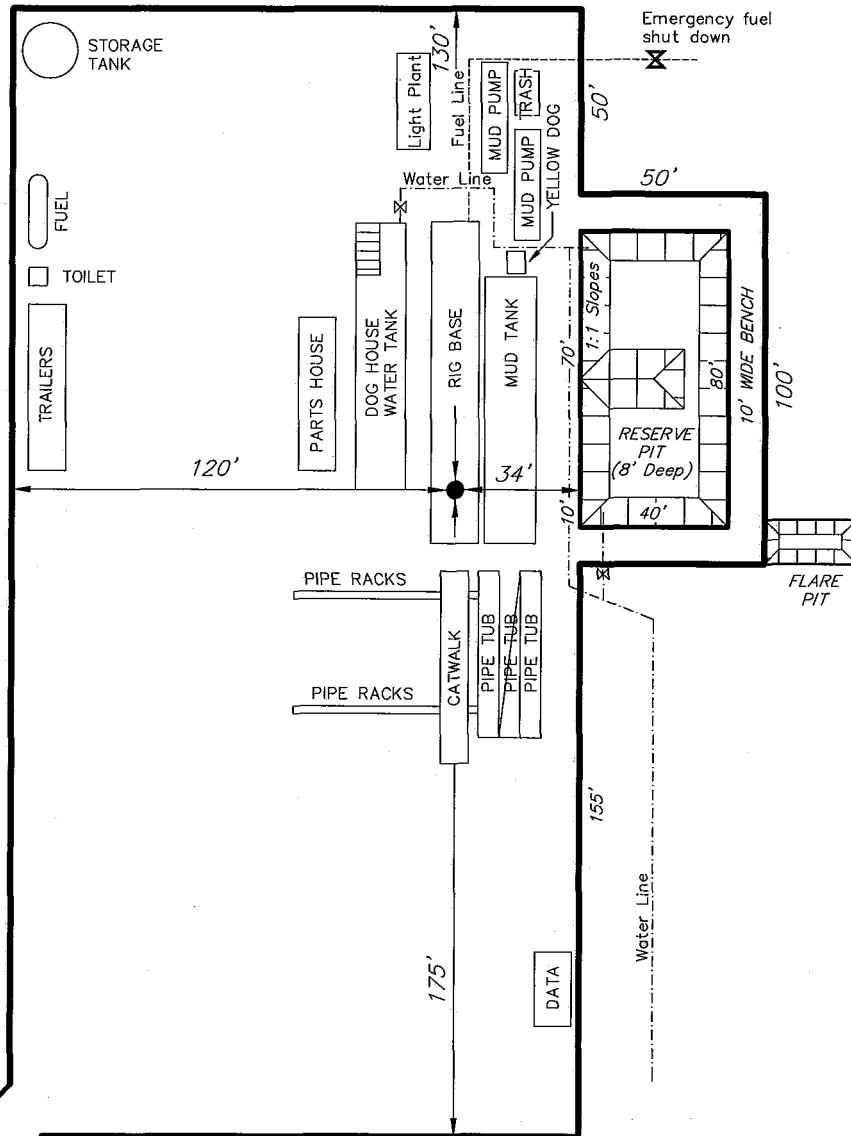
# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

WELL 15-22-4-1



Existing Road



PROPOSED ACCESS  
ROAD (Max. 6% Grade)

SURVEYED BY: T.H.

DATE SURVEYED: 04-17-09

DRAWN BY: F.T.M.

DATE DRAWN: 04-20-09

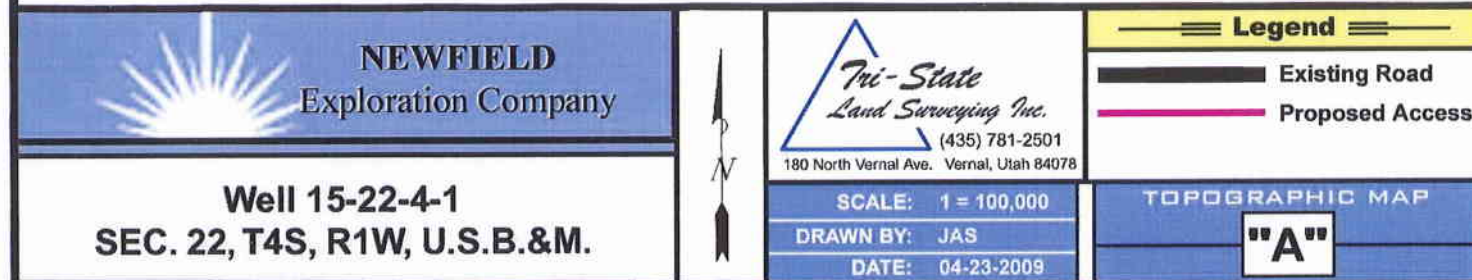
SCALE: 1" = 50'

REVISED: L.C.S. 04-23-09

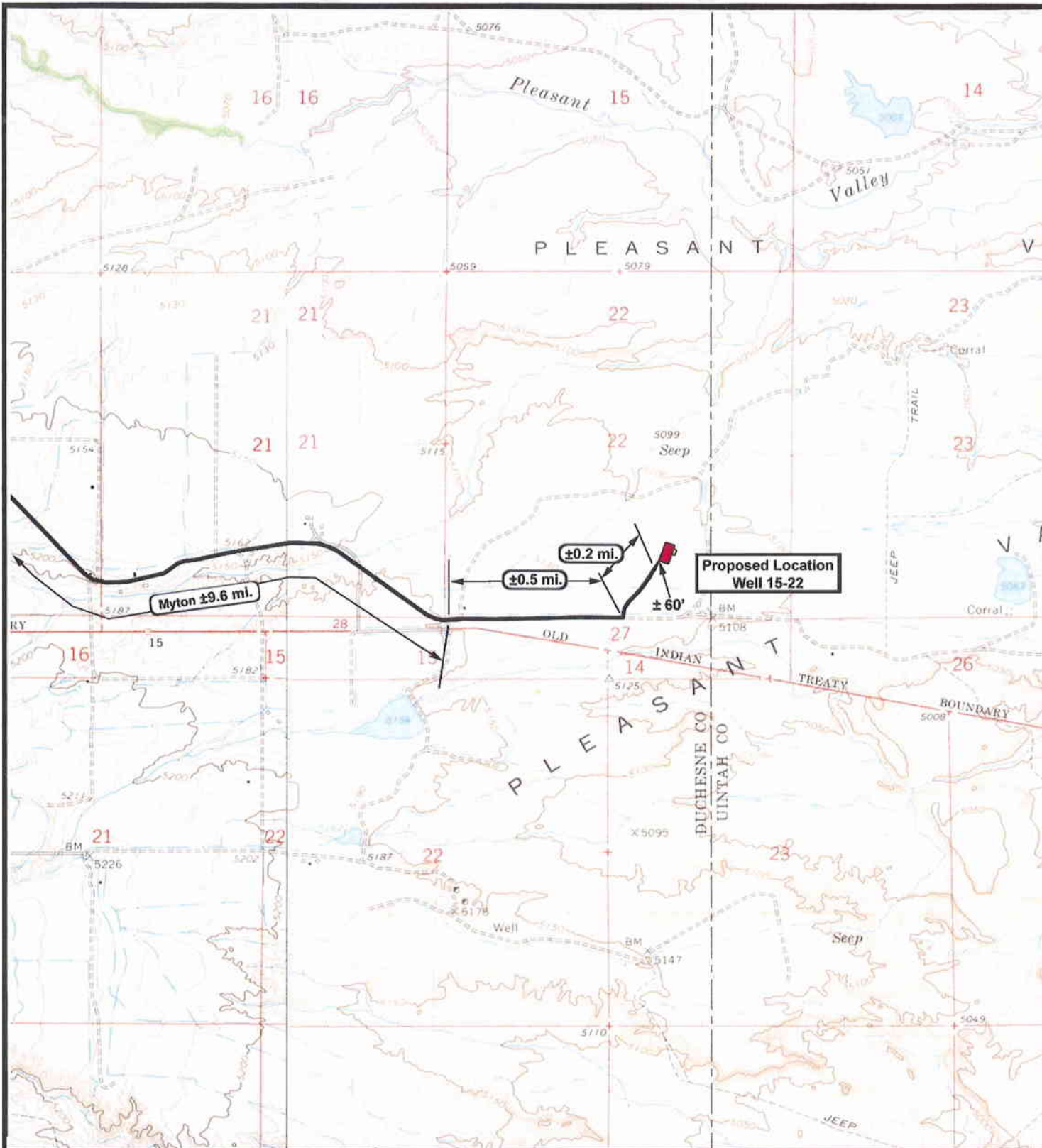
**Tri State**  
Land Surveying, Inc.


(435) 781-2501

180 NORTH VERNAL AVE. VERNAL, UTAH 84078









**NEWFIELD**  
Exploration Company

**Well 15-22-4-1**  
**SEC. 22, T4S, R1W, U.S.B.&M.**






**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078


SCALE: 1" = 2,000'

DRAWN BY: JAS

DATE: 04-23-2009

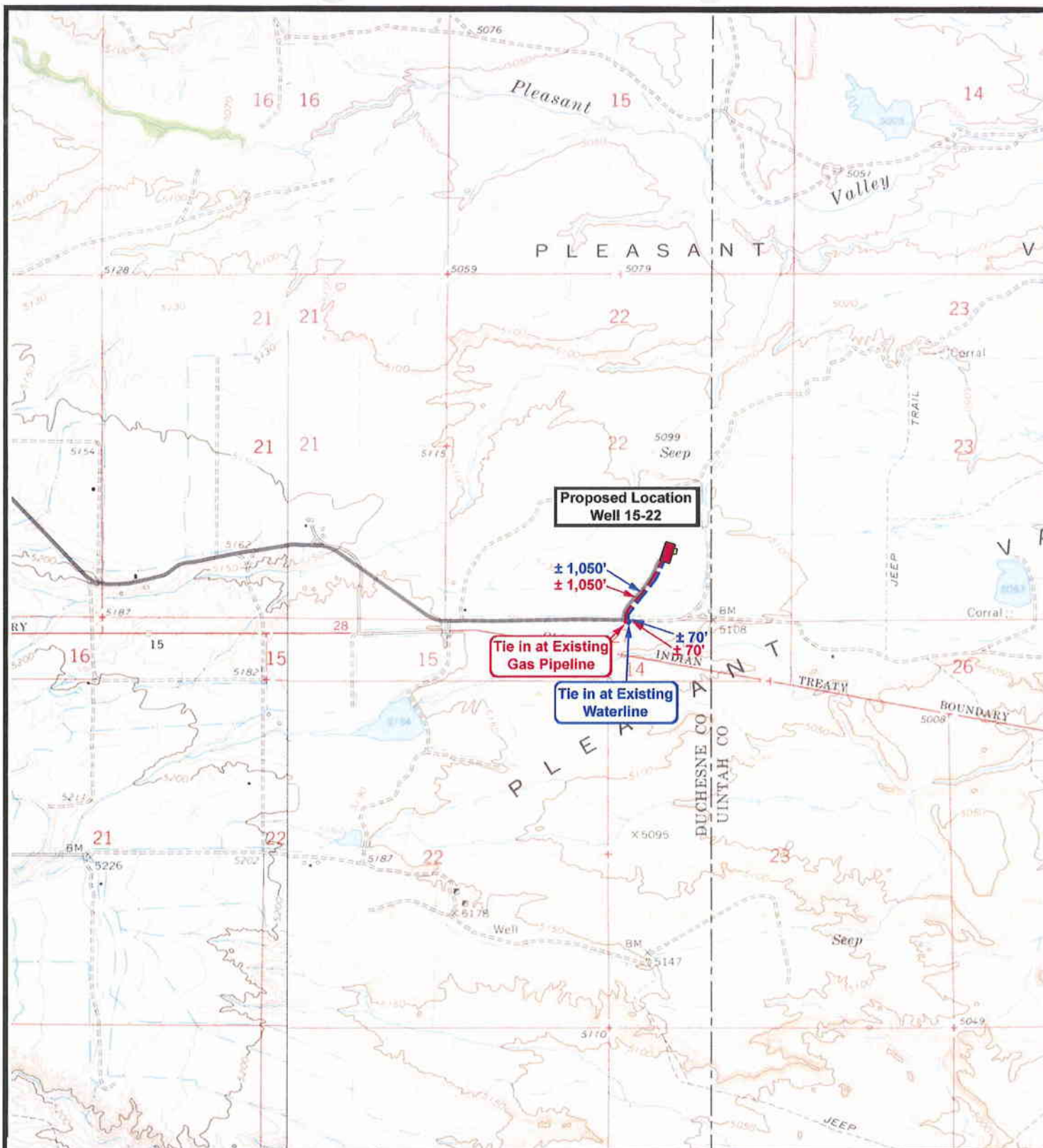
**Legend**


 Existing Road

 Proposed Access

TOPOGRAPHIC MAP

**"B"**





**NEWFIELD**  
Exploration Company

**Well 15-22-4-1**  
**SEC. 22, T4S, R1W, U.S.B.&M.**



**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: JAS  
DATE: 04-23-2009

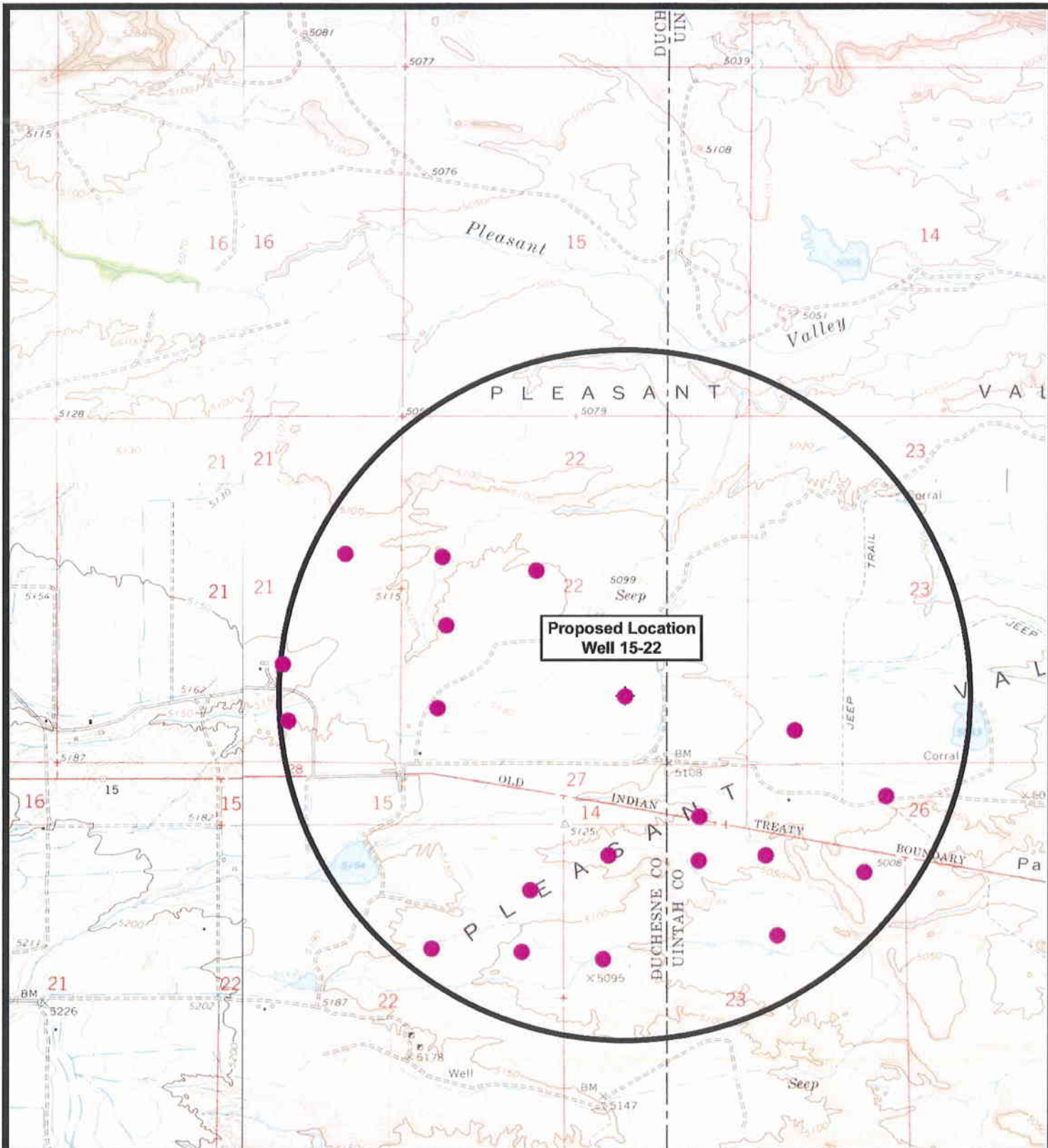
**Legend**


- Roads
- Proposed Gas Line
- Proposed Water Line

**TOPOGRAPHIC MAP**

**"C"**







**NEWFIELD**  
Exploration Company

**Well 15-22-4-1**  
**SEC. 22, T4S, R1W, U.S.B.&M.**





**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'

DRAWN BY: JAS

DATE: 04-23-2009

Legend

● Location


○ One-Mile Radius

**Exhibit "B"**

**Wells located on Nolan and Vicki Larsen  
(Private Land Owner)**

For the above referenced location; Nolan O. Larsen and Vicki Lynn Larsen, the Private Surface Owner. (Having a Surface Owner Agreement with Newfield Production Company)

Nolan O. Larsen  
Nolan Larsen Date  
Private Surface Owner

 1-08-08  
Brad Mecham Date  
Newfield Production Company



Robert 4-19  
" " 5-19  
Prewitt 11-19  
12-19

## SURFACE USE AGREEMENT

THIS AGREEMENT, made and entered into by and between Nolan O. Larsen and Vicki Lynn Larsen, individually and as husband and wife, parties of the first part, hereinafter collectively referred to as "Owner", of POB 25 Myton UT 84052, and Inland Production Company, part of the second part, hereinafter referred to as "Inland", of 475 - 17th Street, Suite 1500, Denver, Colorado 80202

### WITNESSETH:

WHEREAS, Owner is the owner in fee of all or a portion of the surface to the following described lands situated in Duchesne County, Utah, to-wit:

Township 4 South, Range 1 West U.S.M.

Sec 15: SW/4NW/4, NW/4SW/4  
Sec 16: S/2SW/4, N/2SW/4SE/4, NW/4SE/4,  
S/2N/2, NE/4SE/4  
Sec 17: SE/4SE/4  
Sec 19: Lots 1,2,3,4, E/2NW/4, NE/4SW/4,  
N/2SE/4SW/4, SW/4SE/4SW/4  
Sec 22: SW/4, W/2SE/4, S/2NW/4  
Sec 30: Lot 3

Township 4 South, Range 2 West U.S.M.

Sec 11: SE/4NE/4  
Sec 14: Lot 2  
Sec 22: NW/4  
Sec 24: N/2SE/4

WHEREAS, the parties desire to settle their dispute on all claims for use of the surface and damage to crops arising from the drilling, completion and production activities and operations, and agree as to the measure of settlement for operations conducted by Inland on surface owned or controlled by Owner, above described, subject to the terms of this Agreement.

NOW, THEREFORE, In consideration of the mutual covenants herein contained, the parties agree as follows:

- 1 a). For wells located on crop land, within thirty (30) days after construction of any drillsite locations, and/or access roads upon the surface of crop land owned by Owner, Inland shall make a payment to Owner of One Thousand Five Hundred Dollars (\$1,500.00) per acre used by Inland for such drillsite locations and/or access roads. Such payment shall be for the use of the surface and damage to crops and shall cover the year in which such construction occurred. Crop land is defined as that which is now cultivated, seeded, harvested and the crop sold.
- b). Following the year in which the well is drilled, on or before September 15 of each calendar year that Inland's operations continue, Inland shall pay to Owner a sum calculated at the rate of 8 tons per acre at \$80.00 per ton for that acreage used by Inland which is out of crop production as it pertains to the drillsite location at the wellhead and such land used as an access road.
- 2 For wells located on non-crop land, within thirty (30) days after construction of any drillsite locations and/or access roads upon the surface of non-crop land owned by Owner, Inland shall make a one-time payment to Owner calculated at the rate of One Thousand Dollars (\$1,000.00) per acre utilized by Inland in its operations.
- 3 a). For pipeline right-of-way construction in which a pipeline is laid through surface owned by Owner, Inland shall make a one-time payment of a sum calculated at a rate of Five Dollars (\$5.00) per running rod, provided, however, as to any part of said pipeline construction which takes place on crop land after commencement of seasonal cultivation but prior to harvest time, the rate shall be calculated at a rate of Ten Dollars (\$10.00) per running rod utilized by Inland in its operations. When requested by Owner, pipelines shall be buried below plow depth and surface areas impacted by the construction shall be rehabilitated, including the reseeding of crop land.
- b). In the event related pipeline facilities such as a compressor site are constructed on crop land owned by Owner, Inland agrees to make a one-time payment to Owner of One Thousand Five Hundred

(\$1,500.00) per acre utilized by Inland in its operations. Should such related pipeline facilities be located on non-crop land, Inland shall make a one-time payment calculated at a rate of One Thousand Dollars (\$1,000.00) per acre utilized by Inland in its operations.

4. Owner agrees that upon receipt of the payments provided for in this Agreement for any future wells that may be drilled on surface owned by Owner, Inland shall be released and discharged from any and all claims, demands and losses arising out of such future operations for crop damage, acreage out of cultivation, interruption or interference with agricultural improvements and other claims.

5. For payments to be made and received under this Agreement, Owner agrees to protect, indemnify and save Inland and its employees, agents and contractors free and harmless from and against any and all claims, demands and losses, including costs and attorneys fees, accrued or accruing to Owner, its employees and/or tenants arising directly or indirectly in connection with operations by Inland, its employees, agents and contractors.

6. Following the completion of any well, Inland agrees to promptly clean up and maintain all areas of land continuing to be utilized in connection with oil and gas operations and to pay the cost of reclaiming and reseeding upon cessation of use.

7. This Agreement shall be binding upon and shall be for the benefit of the successors and assigns of Owner and Inland whether assigned, devised, bequeathed or otherwise transferred in whole or part by either of the parties hereto. The conditions herein contained shall be covenants running with the land.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the 14th day of March, 1997.

**SURFACE OWNERS:**

X Nolan O. Larsen  
(Nolan O. Larsen) SSN 529 68 4547

Vicki Lynn Larsen  
(Vicki Lynn Larsen) SSN 529 76 3264

**INLAND PRODUCTION COMPANY**

Chris A Potter  
Chris A Potter, Attorney-in-Fact

Surface Only  
Prospect/Unit name  
Lease NO. \_\_\_\_\_



June 8, 2009

State of Utah, Division of Oil, Gas & Mining  
ATTN: Diana Mason  
PO Box 145801  
Salt Lake City, UT 84114-5801

43-013-39258

RE: Exception Location  
**Tanner-Jorgenson 15-22-4-1**  
T4S R1W, Section 24: SWSE  
996' FSL 1855' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to Rule 649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Newfield Production Company ("NPC") hereby requests an exception location for the drilling of the captioned well. The proposed drillsite for this well is located 134' north of the drilling window required by Rule R649-3-2, which requires a well to be located in the center of a forty (40) acre quarter-quarter section, or a substantially equivalent lot or tract, with a tolerance of two hundred (200) feet in any direction from the center.

The attached plat depicts the proposed location and illustrates the deviation from the drilling window. The requested location has been chosen to accommodate the surface owner.

Please note the drillsite and all surrounding acreage within a four hundred sixty (460') foot radius is fee acreage and the leasehold is owned by NPC and John Chasel. A copy of John Chasel's consent to this location has been enclosed.

If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,

*Roxann Eveland*

Roxann Eveland  
Land Associate

Attachment

RECEIVED  
JUN 11 2009  
DIV. OF OIL, GAS & MINING



MAY 14 2009



May 11, 2009

John Chasel  
c/o Quinex Energy  
465 S. 200 W  
Bountiful, UT 84010

RE: Exception Location  
Tanner-Jorgenson 15-22-4-1  
Duchesne County, Utah

Dear Mr. Chasel;

Please be advised Newfield Production Company has submitted an application for permit to drill for the following well:

**Tanner-Jorgenson**  
T4S R1W, Section 24: SWSE  
996' FSL 1855' FEL  
Duchesne County, Utah

In order to accommodate the surface owner, this well has been located 134' north of the drilling window as required by State of Utah R649-3-2. It is therefore only 326' from the lease boundary. It is necessary to obtain your written concurrence with this exception location as a partial leasehold owner of the fee lands in the NWSE of T4S R1W, Section 24, the lands the well will encroach upon.

Enclosed you will find a plat showing the location of the above referenced well. If you are in agreement to this location, please verify your consent by signing and dating where indicated on page 2 of this letter and returning to my attention **as soon as possible** by email at [reveland@newfield.com](mailto:reveland@newfield.com) or fax to 303-893-0103.

If you have any questions or need further information, please do not hesitate to contact me at 303-382-4444. I appreciate your prompt attention to this matter.

Sincerely,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland  
Land Associate

Enclosure

RECEIVED

JUN 11 2009

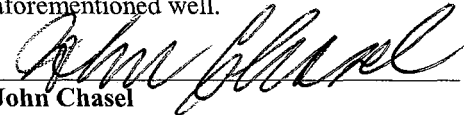
DIV. OF OIL, GAS & MINING



Attn: Roxann Eveland  
Newfield Production Company  
[reveland@newfield.com](mailto:reveland@newfield.com)  
303-893-0103 fax

RE: Exception Location  
**Tanner-Jorgenson**  
T4S R1W, Section 24: SWSE  
996' FSL 1855' FEL  
Duchesne County, Utah

Please be advised the undersigned does not have an objection to the proposed location of the  
aforementioned well.

  
John Chasel

Date: 5-18-09



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 18, 2009

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Tanner-Jorgenson 15-22-4-1 Well, 996' FSL, 1855' FEL, SW SE, Sec. 22, T. 4 South,  
R. 1 West, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-34258.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor





Operator: Newfield Production Company  
Well Name & Number Tanner-Jorgenson 15-22-4-1  
API Number: 43-013-34258  
Lease: Fee

Location: SW SE Sec. 22 T. 4 South R. 1 West

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

#### 4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

Page Two  
43-013-34258  
June 18, 2009

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
6. Surface casing shall be cemented to surface.

Spud

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross # 29 Submitted  
By Justin Crum Phone Number 823-6733  
Well Name/Number Tanner-Jorgenson 15-22-4-1  
Qtr/Qtr SW/SE Section 22 Township 4s Range 1w  
Lease Serial Number Fee  
API Number 43-013-34258

Spud Notice – Spud is the initial spudding of the well, not drilling  
out below a casing string.

Date/Time 7/21/09 9:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing  
times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 7 21/09 1:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_  
\_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	14844	4301332970	<i>Sundance</i> FEDERAL 1-10-9-17	NENE	10	9S	17E	DUCHESNE	7/9/2009	7/30/09
WELL 1 COMMENTS: <i>GRRV</i>											
B	99999	12391	4301334069	GREATER BOUNDARY II Fed S-29-8-17	NESE	29	8S	17E	DUCHESNE	7/18/2009	7/30/09
<i>GRRV</i> <i>BHL = NESE</i>											
A	99999	17336	4301334258	TANNERJORGENSEN 15-22-4-1	SWSE	22	4S	1W	DUCHESNE	7/21/2009	7/30/09
<i>GRRV</i>											
A	99999	17337	4301334259	TANNERJORGENSEN 13-22-4-1	SWSW	22	4S	1W	DUCHESNE	7/22/2009	7/30/09
<i>GRRV</i>											
A	99999	17338	4301333103	FEDERAL 13-19-9-16	SWSW	19	9S	16E	DUCHESNE	7/18/2009	7/30/09
WELL 5 COMMENTS: <i>GRRV</i>											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)  
A - new entity for new well (single well only)  
B - well to existing entity (group or unit well)  
C - from one existing entity to another existing entity  
D - well from one existing entity to a new entity  
E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

RECEIVED

JUL 27 2009

DIV. OF OIL, GAS & MINING

Signature

Production Clerk

Jentri Park

07/23/09

Date

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

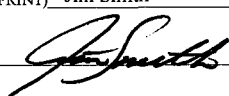
1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL: FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER: TANNERJORGENSEN 15-22-4-1
5. PHONE NUMBER: 435.646.3721		9. API NUMBER: 4301334258
6. OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 22, T4S, R1W		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: UINTAH
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  08/23/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 8/17/09 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 390'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6785'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 151 jt's of 5.5 J-55, 15.5# csgn. Set @ 6786.46' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. The 425 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 20 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 100,000 #'s tension. Release rig @ 4:00 PM on 8/21/09.

NAME (PLEASE PRINT) <u>Jim Smith</u>	TITLE <u>Drilling Foreman</u>
SIGNATURE 	DATE <u>08/23/2009</u>

(This space for State use only)

**RECEIVED**  
**AUG 25 2009**  
**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

**5 1/2" CASING SET AT 6786.46**

LAST CASING	<u>8 5/8"</u>	SET AT	<u>451.57</u>
DATUM	<u>12</u>		
DATUM TO CUT OFF CASING		<u>12</u>	
DATUM TO BRADENHEAD FLANGE			<u>12</u>
TD DRILLER	<u>6785</u>	LOGC	<u>6771</u>
HOLE SIZE	<u>7 7/8"</u>		

OPERATOR Newfield Exploration Company  
WELL TANNERJORGENSEN 15-22-4-1  
FIELD/PROSPECT Monument Butte  
CONTRACTOR & RIG # NDSI # 1

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
1	5 1/2"			15.5	J-55	LTC	a	14
1	5 1/2"			15.5	J-55	LTC	a	20
150	5 1/2"			15.5	J-55	LTC	a	6753.21
1		Float collar						0.6
1		Guide shoe						0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				6788.46
TOTAL LENGTH OF STRING		6788.46		LESS CUT OFF PIECE				14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG				12
PLUS FULL JTS. LEFT OUT		179.93	4	CASING SET DEPTH				<b>6,786.46</b>
<b>TOTAL</b>		6953.14	4	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		156	156					
TIMING								
BEGIN RUN CSG.	Spud	5:00 AM	8/21/2009	GOOD CIRC THRU JOB _____ Yes				
CSG. IN HOLE		7:30 AM	8/21/2009	Bbls CMT CIRC TO SURFACE ____ 20				
BEGIN CIRC		7:30 AM	8/21/2009	RECIPROCATED PIP! _____ Yes				
BEGIN PUMP CMT		9:55 AM	8/21/2009	BUMPED PLUG TO _____ 2452				
BEGIN DSPL. CMT		11:04 AM	8/21/2009					
PLUG DOWN		<b>11:29 AM</b>	<b>8/21/2009</b>					

RECEIVED

**AUG 25 2009**

DIV. OF OIL, GAS & MINING



[illegible]

COMPANY REPRESENTATIVE

**Jim Smith**

DATE 8/21/2009

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL: FOOTAGES AT SURFACE:		8. WELL NAME and NUMBER: TANNERJORGENSEN 15-22-4-1
5. PHONE NUMBER: 435.646.3721		9. API NUMBER: 4301334258
6. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
7. COUNTY: UINTAH		
8. STATE: UT		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - Spud Notice
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  08/15/2009			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 7/21/09 MIRU Ross # 29. Spud well @ 9:00am. Drill 450' of 12 1/4" hole with air mist. TIH W/ 10 Jt's 8 5/8" J-55 24 # csgn. Set @ 451.57'/KB On 7/23/09 cement with 204 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 3 bbls cement to pit. WOC.

NAME (PLEASE PRINT) <u>Don Bastian</u>	TITLE <u>Drilling Foreman</u>
SIGNATURE <u><i>Don Bastian</i></u>	DATE <u>08/15/2009</u>

(This space for State use only)

**RECEIVED**  
**AUG 25 2009**  
**DIV. OF OIL, GAS & MINING**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

**8 5/8" CASING SET AT 451.57**

LAST CASING 8 5/8" SET AT 451.57  
 DATUM 12  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 450 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4"

OPERATOR Newfield Exploration Company  
WELL TANNERJORGENSEN 15-22-4-1  
FIELD/PROSPECT Monument Butte  
CONTRACTOR & RIG # Ross Rig # 29

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH					
1		WHI-92 csg head			LTC	A	0.95					
10	8 5/8"	Maverick ST&C csg(shoe jt 44.00')	24	J-55	LTC	A	439.72					
1		Guide shoe			LTC	A	0.9					
CASING INVENTORY BAL.			FEET	JTS	TOTAL LENGTH OF STRING			441.57				
TOTAL LENGTH OF STRING			441.57	10	LESS CUT OFF PIECE			2				
LESS NON CSG. ITEMS			1.85		PLUS DATUM TO T/CUT OFF CSG			12				
PLUS FULL JTS. LEFT OUT			0		CASING SET DEPTH			451.57				
TOTAL			439.72	10	} COMPARE							
TOTAL CSG. DEL. (W/O THRDS)			439.72	10								
TIMING												
BEGIN RUN CSG.	Spud	9:00 AM	7/21/2009	GOOD CIRC THRU JOB Yes								
CSG. IN HOLE		10:00 AM	7/21/2009	Bbls CMT CIRC TO SURFACE 3								
BEGIN CIRC		8:18 AM	7/23/2009	RECIPROCATED PIP! No								
BEGIN PUMP CMT		8:30 AM	7/23/2009									
BEGIN DSPL. CMT		8:43 AM	7/23/2009	BUMPED PLUG TO 335								
PLUG DOWN		8:52 AM	7/23/2009									

CEMENT USED		CEMENT COMPANY- <b>BJ Service</b>
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	204	G+2% Calcium Chloride+.25#/SK Cello Flake @ 15.8 ppg 1.17 cf/ sk yeild
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Middle first, top first,middle second total 3 centralizers		

COMPANY REPRESENTATIVE

DATE **7/23/2009**

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER			5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		PHONE NUMBER 435.646.3721	7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL: FOOTAGES AT SURFACE:			8. WELL NAME and NUMBER: TANNERJORGENSEN 15-22-4-1
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 22, T4S, R1W			9. API NUMBER: 4301334258
			10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
			COUNTY: UINTAH
			STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 09/24/2009	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 09-14-09, attached is a daily completion status report.

NAME (PLEASE PRINT) <u>Lucy Chavez-Naupoto</u>	TITLE <u>Production Tech</u>
SIGNATURE 	DATE <u>09/24/2009</u>

(This space for State use only)

**RECEIVED**

**SEP 28 2009**

**DIV. OF OIL, GAS & MINING**

**Daily Activity Report**

Format For Sundry

**TANNERJORGENSEN 15-22-4-1****7/1/2009 To 11/30/2009****9/3/2009 Day: 1****Completion**

Rigless on 9/3/2009 - Run CBL & shoot first stage. 142 BWTR. SWIFN. - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6703' cement top @ 54'. Perforate stage #1. A1 sds @ 5901-09' & A.5 sds @ 5875-77' w/ 3 1/8" ported guns (11 gram, .36" EH, 120°, 16.82" pen, PPG-3111-301 Titan) w/ 3 spf for total of 30 shots. 142 BWTR. SWIFN.

**Daily Cost:** \$0**Cumulative Cost:** \$12,770

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**9/8/2009 Day: 2****Completion**

Rigless on 9/8/2009 - Frac well. Flow well back. - Stage #2: RU PSI WLT, crane & lubricator. RIH w/ composite 5-1/2" (6K) Weatherford flow through frac plug & 5', 5', 2' perf guns. Set plug @ 5753'. Perforate C sds @ 5648-53', 5620-25', 5614-16' w/ 3-1/8" disposable guns (16 gram, .34"EH, 120°) w/ 3 spf for total of 39 shots. RU BJ & open well w/ 912 psi on casing. Perfs broke down @ 1123 psi back to 1078 psi w/ 4 bbls fluid @ 5 bpm. ISIP was 941 w/ .60FG. Pressure to low. Pump 30 gals of Techni Hib @ 4% by volume. Frac w/ 30,848#'s of 20/40 sand in 436 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1804 w/ ave rate of 35 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1561 w/ .71FG. 740 Bbls EWTR. Leave pressure on well. - Stage #3: RU WLT. RIH w/ frac plug & 4' perf gun. Set plug @ 5550'. Perforate D2 sds @ 5498-5502' w/ 3 spf for total of 12 shots. RU BJ & open well w/ 1145 psi on casing. Perfs broke down @ 3442 psi back to 1611 psi w/ 5 bbls fluid @ 3 bpm. ISIP was 1275 w/ .67FG. 1 min was 1165 psi. Pressure to low. Pump 30 gals of Techni Hib @ 4% by volume. Frac w/ 15,118#'s of 20/40 sand in 299 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2286 w/ ave rate of 22 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1598 w/ .72FG. 5 min was 1340. 10 min was 1290. 15 min was 1264. 1039 Bbls EWTR. Leave pressure on well. - Stage #4: RU WLT. RIH w/ frac plug & 4', 6' perf guns. Set plug @ 5422'. Perforate DS3 sds @ 5361-67' & DS2 sds @ 5325-29' w/ 3 spf for total of 30 shots. RU BJ & open well w/ 1103 psi on casing. Perfs broke down @ 1461 psi climbed to 1765 psi w/ 5 bbls fluid @ 4 bpm. ISIP was 1630 w/ .74FG. 1 min was 1571 psi. 4 min was 1501 psi. Pump 30 gals of Techni Hib @ 4% by volume. Frac w/ 62,022#'s of 20/40 sand in 585 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2786 w/ ave rate of 42 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 3564 w/ 1.1FG. 5 min was 2944. 10 min was 2237. 15 min was 2064. 1624 Bbls EWTR. Leave pressure on well. - Stage #1: RU BJ Services "Ram Head" frac flange. Perfs broke down @ 3293 psi back to 2300 psi w/ 4 bbls fluid @ 4 bpm. ISIP was 1753 w/ .73FG. 1 min was 1452 psi. 4 min was 1307 psi. Pump 30 gals of Techni Hib @ 4% by volume. Frac w/ 15,010#'s of 20/40 sand in 304 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2403 w/ ave rate of 25 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2017 w/ .78FG. 5 min was 1896. 10 min was 1835. 15 min was 1785. 304 Bbls EWTR. Leave pressure on well. - Stage #5: RU WLT. RIH w/ frac plug & 3', 3', 5' perf guns. Set plug @ 5018'. Perforate GB6 sds @ 4913-18', GB4 sds @ 4898-4901', 4867-4870' w/ 3 spf for total of 33 shots. RU BJ & open well w/ 1097 psi on casing. Perfs broke down @ 2019 psi back to 1487 psi w/ 5 bbls fluid @ 4 bpm. ISIP was 1355 w/ .71FG. 1 min was 1202 psi. 4 min was 1103 psi. Pump 30 gals of Techni Hib @ 4% by volume. Frac w/ 75,414#'s of 20/40 sand in 627 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2072 w/ ave rate of 43 bpm w/ 8 ppg of sand. ISIP was 2029 w/ .85FG. 5 min



was 1975. 10 min was 1815. 15 min was 1697. 2251 Bbbs EWTR. Flow well back. Well flowed for 4 hours & died w/ 550 bbbs rec'd. 1701 bbbs EWTR. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$88,377

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**9/9/2009 Day: 3****Completion**

WWS #3 on 9/9/2009 - Set kill plug. PU tbg. - MIRUSU. Open well w/ 350 psi on casing of oil & gas. RU PSI WLT & lubricator. RIH w/ Weatherford 5-1/2" composite solid plug. Set plug @ 4770'. RD WLT. RD cameron BOP's & frac head. Instal 3M production tbg head & Schefer BOP's. RU used 4-3/4" mill & x-over sub. Tally, pickup & TIH w/ new J-55, 6.5#, 2-7/8" tbg to tag plug @ 4770'. RU swivel, pump & tanks. Drlg out plug in 15 min. TIH w/ tbg to 4803'. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$129,717

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**9/10/2009 Day: 4****Completion**

WWS #3 on 9/10/2009 - Drlg plugs. Clean well out. - Open well w/ 150 psi on casing. TIH w/ tbg to tag fill @ 4976'. C/O to plug @ 5018'. Drlg out plug #1. TIH w/ tbg to tag fill @ 5377'. C/O to plug @ 5422'. Drlg out plug #2. TIH w/ tbg to tag plug @ 5550'. Drlg out plug #3. TIH w/ tbg to tag fill @ 5718'. C/O to plug @ 5753'. Drlg out plug #4. TIH w/ tbg to tag fill @ 6589'. C/O to PBTD @ 6765'. LD 3 jts tbg. RU swab. Made 3 runs to rec'd 45 bbbs of fluid. Last run showed no sand. SIFN. Lost 75 bbbs today.

**Daily Cost:** \$0

**Cumulative Cost:** \$135,478

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**9/11/2009 Day: 5****Completion**

WWS #3 on 9/11/2009 - Clean well out. TOOH w/ tbg. - Open well w/ 0 psi on casing. RU swab & made 10 runs to rec'd 160 bbbs of fluid. Last run showed good show of oil & gas w/ no sand. Well flowing. RD swab equip. TIH w/ tbg to tag no new sand. C/O to PBTD 6765'. TOOH w/ tbg. LD Mill & x-over sub. RU NC, 2 jts tbg, SN, 2 jt, TA Cntrl Hydrlic w/ 45,000# Shear, 188 jts tbg. RD BOP's. Set TA @ 5860' w/ 18,000#'s tension w/ SN @ 5926' & EOT @ 5990'. Flush tbg w/ 60 bbbs water. Pickup & prime pump. TIH w/ 2-1/2"x 1- 1/2" x 16' x 20' new CTRL Hydrlic RHAC pump w/ 182" SL, 6- 1-1/2" weight rods, 20- 3/4" guided rods, 20- 3/4" slick rods. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$143,215

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**9/14/2009 Day: 6****Completion**

WWS #3 on 9/14/2009 - Put well on pump. - Open well w/ 0 psi on casing. Continue TIH w/ rods: 110- 3/4" slick rods, 101- 3/4" guided rods, 2', 4' x 3/4" pony rods, 1-1/2" x 26' polish rod. Space pump. Test tbg to 800 psi w/ 3 bbbs fluid. RDMOSU. POP @ 10AM w/ 122"SL @ 5 spm w/ 1691 bbbs EWTR. Final Report. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$177,707

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**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other						5. Lease Serial No. FEE			
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____						6. If Indian, Allottee or Tribe Name NA			
2. Name of Operator NEWFIELD EXPLORATION COMPANY						7. Unit or CA Agreement Name and No. FEE			
3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202						8. Lease Name and Well No. TANNER-JORGENSEN 15-22-4-1			
3a. Phone No. (include area code) (435)646-3721						9. AFI Well No. 43-013-34258			
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface 996' FSL & 1855' FEL (SW/SE) SEC. 22, T4S, R1W  At top prod. interval reported below  At total depth 6786'						10. Field and Pool or Exploratory MONUMENT BUTTE			
						11. Sec., T., R., M., on Block and Survey or Area SEC. 22, T4S, R1W			
						12. County or Parish DUCHESNE		13. State UT	
14. Date Spudded 07/21/2009		15. Date T.D. Reached 08/21/2009		16. Date Completed 09/11/2009 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		17. Elevations (DF, RKB, RT, GL)* 5115' GL 5127' KB			
18. Total Depth: MD 6786' TVD		19. Plug Back T.D.: MD 6703' TVD		20. Depth Bridge Plug Set: MD TVD					
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <input checked="" type="checkbox"/> DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND						22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)			
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		452'		204 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		6786'		300 PRIMLITE		54'	
						425 50/50 POZ			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	EOT@ 5991'	TA @5864'							
25. Producing Intervals									
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) GREEN RIVER				(A1)5901-09(A.5)5875-77'		.36"	3	30	
B) GREEN RIVER				(C)5648-53,5620-25,5614-1		.34"	3	39	
C) GREEN RIVER				(D2)5498-5502'		.34"	3	12	
D) GREEN RIVER				(DS3)(DS2) see below		.34"	3	30	
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
5877-5909'		Frac w/ 15,010#s of 20/40 sand in 304 bbls of Lightning 17 frac fluid.							
5614-5653'		Frac w/ 30,848#s of 20/40 sand in 436 bbls of Lightning 17 frac fluid							
5498-5502'		Frac w/ 15,118#s of 20/40 sand in 299 bbls of Lightning 17 frac fluid.							
5325-5367'		Frac w/ 62,022#s of 20/40 sand in 585 bbls of Lightning 17 frac fluid.							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/11/09	10/05/09	24	→	76	47	13			2-1/2" x 1-1/2" x 16' x 20' RHAC Cntrl Hydrlic
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status PRODUCING	
			→						
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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NOV 09 2009

DIV. OF OIL, GAS &amp; MINING

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	4401' 4593'
				GARDEN GULCH 2 POINT 3	4709' 5003'
				X MRKR Y MRKR	5229' 5260'
				DOUGALS CREEK MRK BI CARBONATE MRK	5397' 5694'
				B LIMESTON MRK CASTLE PEAK	5814' 6143'
				BASAL CARBONATE	6636'

## 32. Additional remarks (include plugging procedure):

Stage #4: Perforate DS3 sds @ 5361-67' & DS2 sds @ 5325-29' w/ 3 spf for total of 30 shots.

Stage #5: Perforate GB6 sds @ 4913-18', GB4 sds @ 4898-4901', 4867-4870' w/ 3 spf for total of 33 shots. Frac w/ 75,414#s of 20/40 sand in 627 bbls of Lightning 17 frac fluid.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Tammi LeeTitle Production ClerkSignature Date 10/21/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)